

Notice of Allowability

Application No.

09/704,435

Examiner

Phuoc H. Nguyen

Applicant(s)

BEN-ZVI, NIR

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on May 15, 2006 and an interview on July 14, 2006.
2. ☒ The allowed claim(s) is/are 2-4, 6-8, 10-12, 14 and 15.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul Teng (Reg. No. 40,837) on July 17, 2006.

Listing of the Claims:

Please cancel claim 5, and amend claims 6, 7, 14, and 15 as follows:

6. (Currently Amended) A method according to claim ~~5~~ 14, wherein said data file is transmitted to said first user terminal from a plurality of other user terminals.

7. (Currently Amended) A method according to claim ~~5~~ 14, wherein the transmission of said data file from the first user terminal to one or more user terminals is carried out with delay.

14. (Currently Amended) A method for efficiently exploiting an upstream channel bandwidth of full-duplex connection between user terminal and data network, said method comprising:

providing a coordination center to monitor data files downloaded by user terminals over said data network and maintain a register of the locations and file identifier of each of the downloaded data files amongst said user terminals;

receiving by the coordination center from a first user terminal a request for a data file;

determining by the coordination center whether a location of the requested data file is registered in the register, and if registered, determining a second user terminal corresponding to the registered location of the requested data file;

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sending an instruction from the coordination center to the second user terminal to send the requested data file to the first user terminal through the upstream channel bandwidth of the second user terminal

receiving said requested data file on said first user terminal;

causing said received data file to be re-transmitted through said upstream channel bandwidth from said first user terminal to a first group of one or more other user terminals; and

causing said received data file to be re-transmitted through said upstream channel bandwidth from said first group of user terminals to a further group of one or more other user terminals, and repeating this step for all said user terminals requesting the same said data file.

15. (Currently Amended) A system for efficiently exploiting an upstream channel bandwidth of full-duplex connection between user terminal and data network, said system comprising:

a plurality of user terminals connected to said data network via full-duplex connections, each user terminal comprising storage means for storing data files downloaded to the user terminal;

a coordination center coupled to said data network and configured to monitor data files downloaded by the user terminals over said data network and maintain a register of the locations and file identifier of each of the downloaded data files amongst said user terminals,

wherein when the coordination center receives from a first user terminal a request for a data file, the coordination center (i) determines whether a location of the requested data file is registered in the register, and (ii) if registered, determines a second user terminal corresponding to the registered location of the requested data file, and sends an instruction to the second user terminal to send the requested data file to the first user terminal through the upstream channel bandwidth of the second user terminal, and

wherein when said requested data file is received on said first user terminal, said received data file is re-transmitted through said upstream channel bandwidth from said first user terminal to a first group of one or more other user terminals, and said received data file is re-transmitted through said upstream channel bandwidth from said first group of user terminals to a further group of one or more other user terminals.

Examiner's Statement of Reasons for Allowance

2. This office action is in response to the amendment filed on May 15, 2006 and an Examiner-Initiated Interview on July 14, 2006.

3. Applicant canceled claim 5 and amended claims 14 and 15.

4. Claims 2-4, 6-8, 10-12, and 14-15 are allowed

5. Claims include limitations that the prior art of record does not appear to teach or render obvious the claimed limitations as recited below.

6. The following is a statement of reasons for the indication of allowable subject matter:

The present invention is directed to a system and method for efficiently exploiting an upstream channel bandwidth of full-duplex connection between user terminal and data network. The independent claims 14, and 15 identify an uniquely distinct feature "a coordination center to monitor and maintain the locations and file identifier of each of the downloaded data files amongst user terminal, upon receiving a request for data file from a first terminal, the coordination center determines the location of requested data file, and sending the instruction from the coordination center to a terminal of the located data file to send the requested data file to the first terminal through the upstream channel bandwidth of the terminal of the located data file" and in combination with other limitations as set forth in the independent claims. Claims 2-4, 6-8, 10-12 are allowed due to dependent claims.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

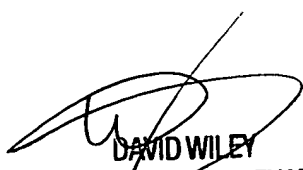
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuoc H. Nguyen whose telephone number is 571-272-3919. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuoc H Nguyen
Examiner
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July 27, 2006


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